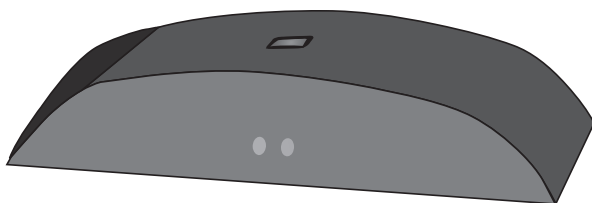
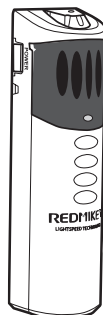
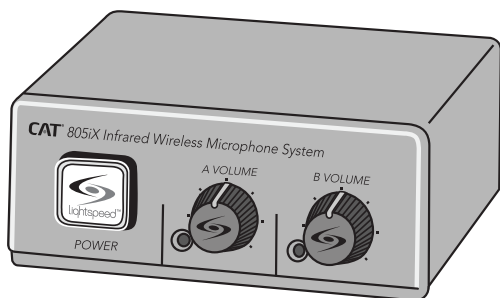




CAT 805iX

Infrared Wireless Microphone System



User Manual

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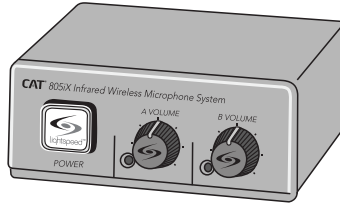
SECTION 1:

OVERVIEW

SYSTEM COMPONENTS AND UNPACKING

The standard configuration of the CAT 805iX will contain:

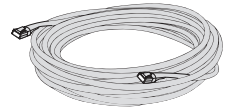
CAT 805iX
Preamp



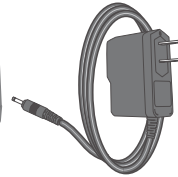
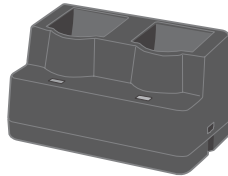
Preamp Power
Supply



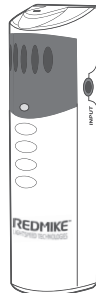
ISR Infrared Sensor/
Receiver and Cable



Charging Cradle and
Power Supply



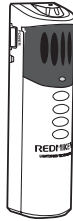
REDMIKE®
Classroom
Microphone



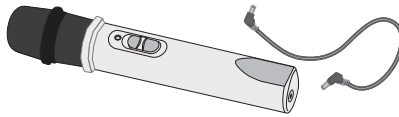
OPTIONAL COMPONENTS

Optional equipment which may be part of your CAT 805iX system:

REDMIKE® VC
Volume Control
Microphone



REDMIKE Share
Handheld Microphone
and Charger Cable



LT-71 LightMic
and Charger Cable



Standard Accessories

AC-805	Microphone preamp
PS-24V-250	24V/250mA power supply for CAT 805iX
RX-ISR	Infrared sensor/receiver with mounting bracket
CA-P5E50	50' plenum-rated Cat 5e cable
RMT	REDMIKE classroom microphone with battery
BA-NH2A27	AA NiMH rechargeable sensing battery for REDMIKE
AC-RMLC2	REDMIKE lavalier cord
BC-RMCC	REDMIKE cradle charger
PS-5V-1.0	5V/1.0A power supply for cradle charger

Optional Components

RMV	REDMIKE VC microphone with battery
RMS	REDMIKE Share handheld microphone with battery pack
LT71	LightMic microphone with batteries
BA-NH2APK	NiMH rechargeable battery pack for REDMIKE Share
BA-NH1	AA NiMH rechargeable battery for LT71 (2 per microphone)

5. Warranty, Safety
& Specifications

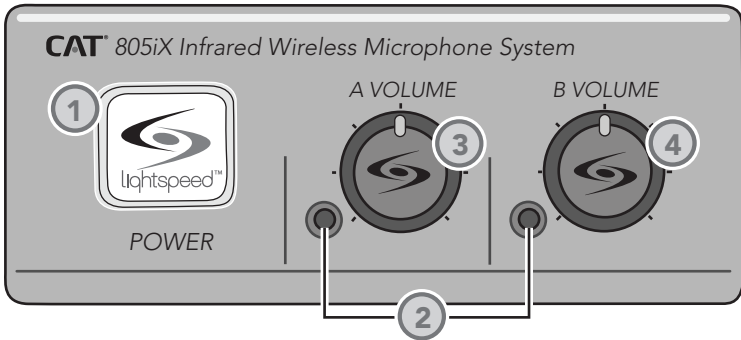
4. Troubleshooting

3. Optional
Accessories

2. Setup & Use

1. Overview

FRONT PANEL CONTROLS



1. POWER SWITCH/INDICATOR:

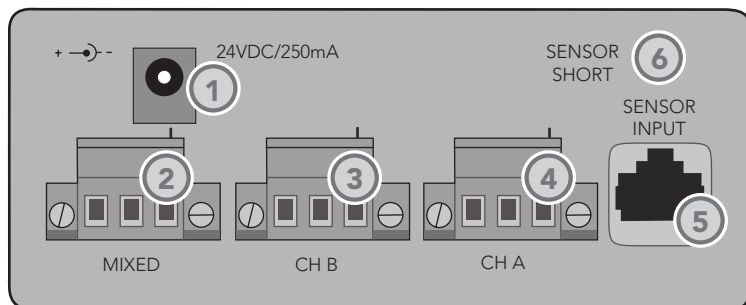
Press this button to turn the CAT 805iX ON (pushed in) or OFF. When the POWER is switched on, the blue LED indicator will light.

2. AUDIO INDICATORS: These lights flash red when audio (voice) from the microphone is detected.

3. A VOLUME: Controls the volume of the teacher microphone (set to channel A).

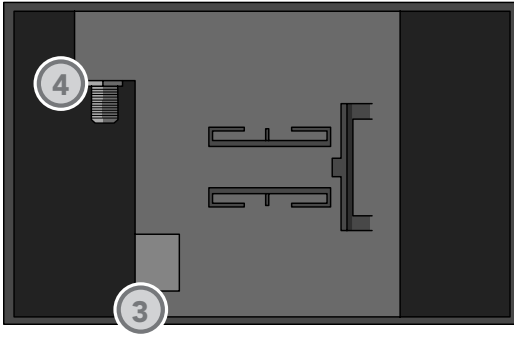
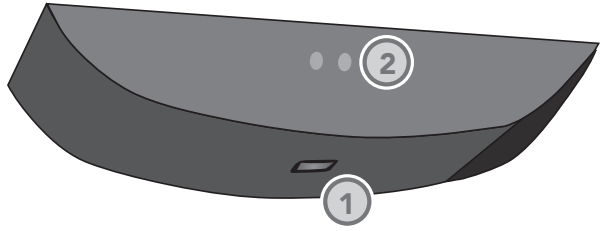
4. B VOLUME: Controls the volume of the student or second teacher microphone (set to channel B).

REAR PANEL CONTROLS



- 1. DC POWER:** Plug the power supply (24V/250mA) into this jack.
- 2. MIXED OUTPUT:** This balanced output sends the audio from both microphones (CH. A and CH. B) to an input on an amplifier.
- 3. CH B OUTPUT:** This balanced output sends the audio from only the microphone set to CH. B to an input on an amplifier.
- 4. CH A OUTPUT:** This balanced output sends the audio from only the microphone set to CH. A to an input on an amplifier.
- 5. SENSOR INPUT:** The infrared microphone audio from the ISR is connected to this input via Cat 5 cable.
- 6. SENSOR SHORT:** This LED glows red when there is a short in the ISR or cable. The system will not operate, but is protected from damage when the LED is lighted.

INFRARED SENSOR/RECEIVER (ISR) CONNECTIONS

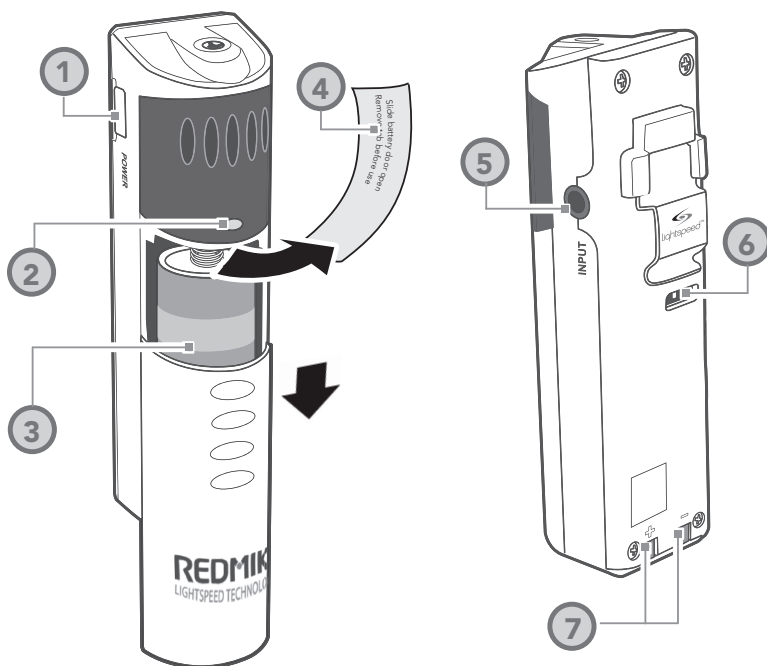


- 1. POWER INDICATOR:** This light will glow blue when the ISR is receiving power from the CAT 805iX.
- 2. A/B IR INDICATORS:** These lights glow when the corresponding microphone (set to channel A or B) is turned on and transmitting. A steady light indicates a strong signal.
- 3. SENSOR OUT:** Connect the Cat 5 sensor cable to this connection to

send audio from the microphones to the CAT 805iX preamp.

- 4. IR EXPANSION:** Connect up to three passive IR sensors (IR-SR70F) to this connection for larger classrooms. For more than one additional sensor a 3-way coax splitter is required (HS3).

REDMIKE CONTROLS AND CONNECTIONS



- 1. POWER BUTTON:** Press this button to turn the REDMIKE ON, press again to turn it OFF (mute).
- 2. POWER/LOW BATTERY INDICATOR:** A BLUE light indicates the REDMIKE is on and fully charged. A RED light indicates a charge is needed.
- 3. BATTERY COMPARTMENT:** To access the battery compartment, slide the door downward. The battery should only be replaced by a Lightspeed AA rechargeable sensing battery (part # BA-NH2A27).
- 4. YELLOW PROTECTIVE TAB:** Slide the battery compartment door open to remove this disposable protective tab before use. NOTE: do not attempt to remove the tab without first

opening the compartment door, as it may tear, leaving fragments.

- 5. AUDIO/MICROPHONE INPUT:** Use this input to plug in a laptop, MP3 player or other audio source to wirelessly transmit audio to be played through the system. Alternatively, an external microphone can be connected.
- 6. CHANNEL SELECT SWITCH (CH A/B):** This switch allows for selection between Channel A or B. If you are using a single microphone, we recommend using Channel A.
- 7. CHARGER CONTACTS (+ -):** These contacts interface with the charging tabs in the BC-RMCC cradle charger for daily charging. Simply place the REDMIKE in the charger.

5. Warranty, Safety & Specifications

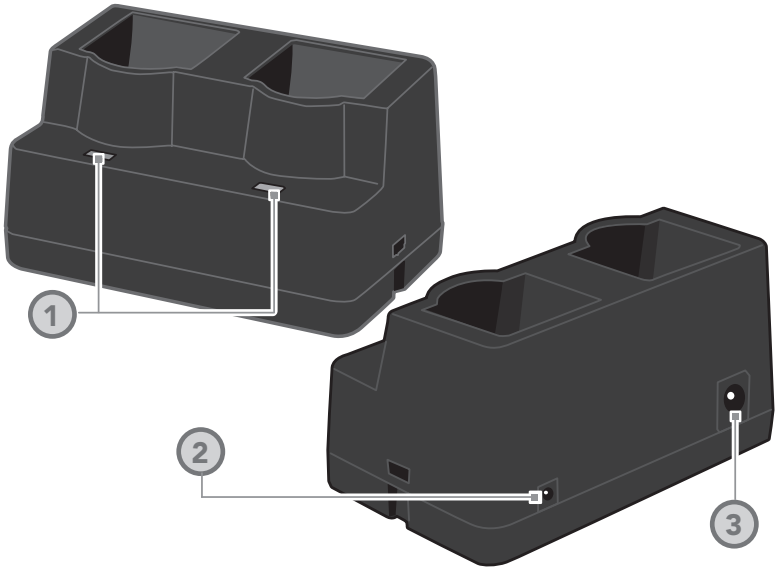
4. Troubleshooting

3. Optional Accessories

2. Setup & Use

1. Overview

CRADLE CHARGER CONTROLS AND CONNECTIONS



1. CHARGE INDICATORS: The light glows RED while the REDMIKE is charging. When fully charged, the light will glow GREEN. A blinking RED light indicates that no battery is sensed, (REDMIKE Yellow Protective Tab may not have been completely removed—see page 5, item 4.) A blinking Green LED means a non- Lightspeed battery has been installed (possibly an alkaline battery).

2. DC POWER PORT: Connect the DC power cord here.

3. OPTIONAL CHARGING PORT: Plug the charging cord for the optional LT-71 or the REDMIKE Share microphones here.

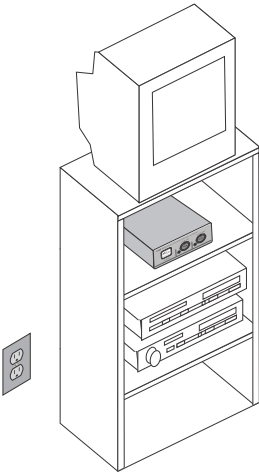
SECTION 2:

SET-UP & USE

1. LOCATION OF THE RECEIVER

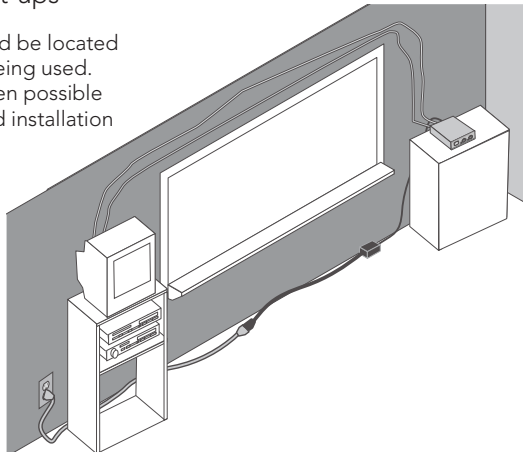
First, find a suitable location to set-up the CAT 805iX preamp. It is best to put the preamp in a stable location near the amplifier to be used.

Media Cabinet Set-up



Avoid Separated Set-ups

Ideally the preamp should be located very near the amplifier being used. Avoid long distances when possible to minimize wire runs and installation hassle.



5. Warranty, Safety
& Specifications

4. Troubleshooting

3. Optional
Accessories

2. Setup & Use

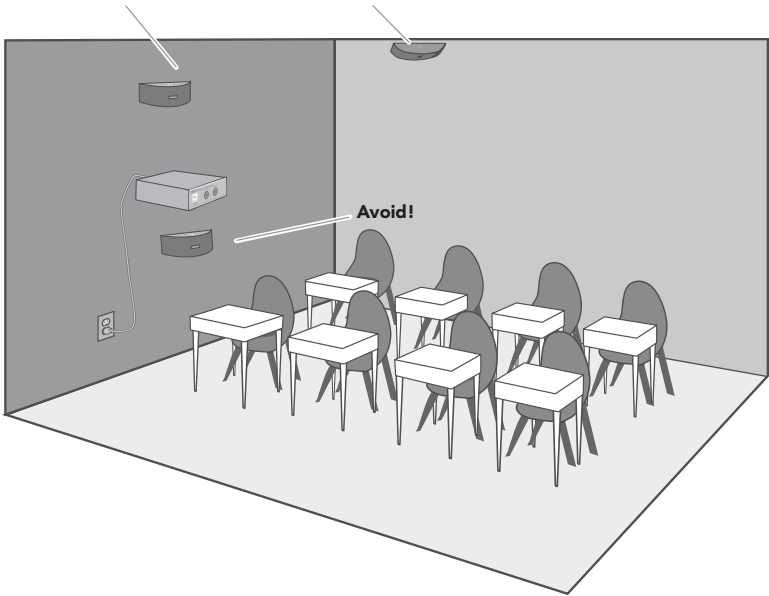
1. Overview

2. ISR SENSOR INSTALLATION

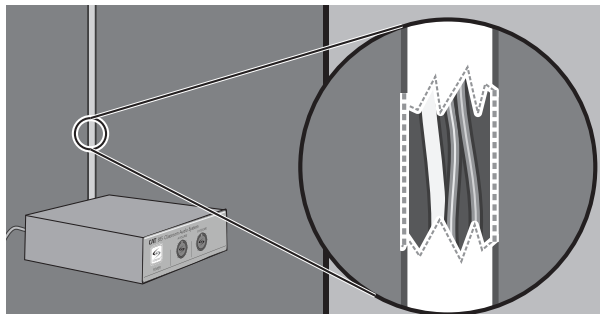
Next, find a suitable location for the ISR. Poor location will cause substandard performance of the CAT 805iX IR Wireless Microphone System. The ISR should be as high as possible in the room – the ceiling is the best location, centered along the longest wall in the room. When possible, use a conduit to protect the wires (not included). Poor choices for placement are corners, on walls at heights lower than 7 feet (2 meters), or in places where the line of sight from the ISR to the receiver is or could be obstructed.

Good placement

Best placement



Conduit is Recommended

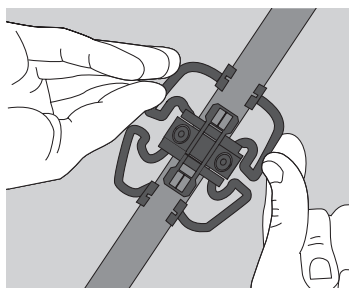


2. ISR SENSOR INSTALLATION CONT'D

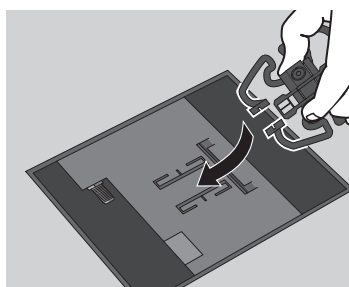
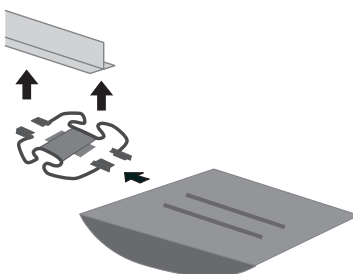
Once you find a suitable location for the ISR, follow these instructions to mount it. There are different instructions for mounting depending on if the ISR will be mounted to a suspended ceiling grid or secured to a wall / solid vertical surface.

Suspended Ceiling Mount

1. Attach the bracket to the ceiling tile grid (t-bar).
 - a. Slide the tabs onto the outsides of the t-bar, starting with one corner.
 - b. Attach the second tab around the other side of the t-bar.
 - c. Repeat with the other side of the bracket so it is connected at all four points.
2. Slide the ISR onto the bracket until it "clicks" into place.
 - a. Guide the mounting rails onto the bracket, oriented as pictured.
 - b. Once secure, the ISR locks into place.
 - c. To remove the ISR, press the release bar down and slide the ISR off the bracket. (We need to label the "release bar" on the ISR Image that shows "clip guide")
3. Uncoil the Cat 5 sensor cable. Connect one end of the cable to the ISR. Secure wire overhead and route it back to the system.
4. Connect the other end of the Cat 5 sensor cable into the SENSOR INPUT jack on the CAT 805iX preamp.



clip connects to t-bar on ceiling



2. IR SENSOR/RECEIVER (ISR) INSTALLATION

CONT'D

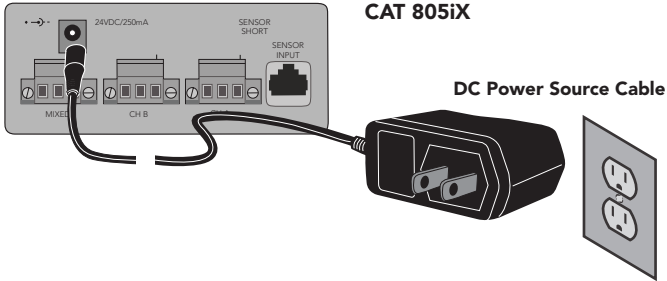
Wall/Solid Ceiling Mount

1. Screw the bracket to a place high on the wall or in the middle of the solid ceiling. Mount the bracket horizontally as shown below.
2. Uncoil the Cat 5 sensor cable. Connect one end of the cable to the ISR. Route the wire back to the CAT 805iX preamp, securing it along with way using surface raceway where possible.
3. Slide the ISR onto the bracket.
 - a. Guide the mounting rails onto the bracket, oriented as pictured.
 - b. Once secure, the ISR locks into place.
 - c. To remove the ISR, slide a ruler or screwdriver behind the ISR to press the release bar down and slide the ISR off the bracket
4. Connect the other end of the Cat 5 sensor cable into the SENSOR INPUT jack on the CAT 805iX preamp.



3A. CONNECT THE POWER SUPPLY

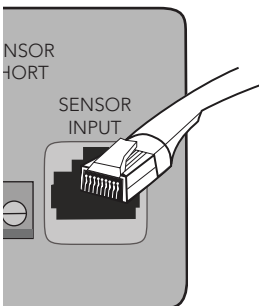
1. Ensure the power button is depressed in the OFF position
2. Connect the DC end of the power supply to the 24VDC input
3. Connect the AC adapter end of the supply into a wall outlet.



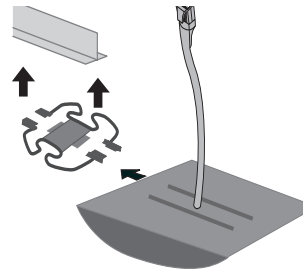
3B. ISR CONNECTION

1. Ensure the power is still switched OFF.
2. Check the connection from the ISR to the CAT 805iX. Ensure the sensor cable is securely attached to the SENSOR INPUT jack and locked into place.

CAT 805iX Preamp

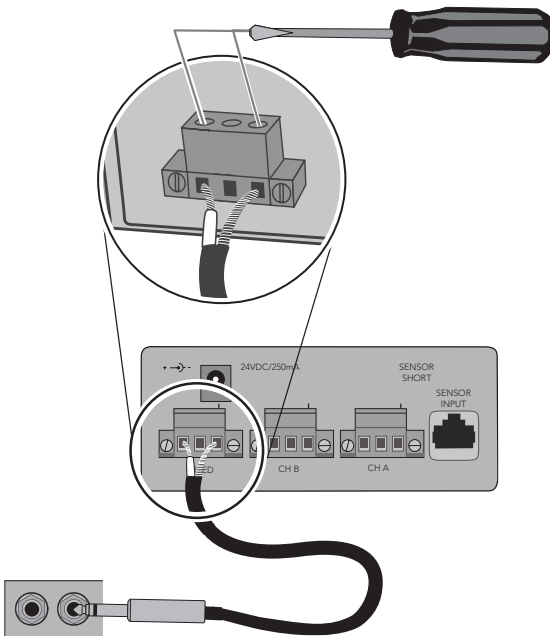


ISR Sensor/Receiver



3C. CONNECT CAT 805iX TO AN AMPLIFIER

1. Ensure the power is turned OFF and the microphone volume controls are turned all the way down.
2. Determine whether you wish to connect to the mixed output or the individual microphone outputs (CH. A / CH. B):
 - a. MIXED OUTPUT
(Recommended for most applications): connect to this output if you wish to connect the mixed signal of microphone A and microphone B into a single input on the amplifier.
 - b. CH. A/CH. B OUTPUTS:
connect to these outputs if you wish to use the amplifier to control each microphone channel individually.
3. Insert the stripped wires into the marked openings on the euro-block connector:
 - a. Unbalanced cable connection (included cable): connect the signal wire to the positive connection (+) and the shield to the ground.
 - b. Balanced cable connection (not included): this connector is recommended for long cable runs of 12 feet or more. Connect the positive and negative signal wires to the marked terminals, and the shield to the ground terminal.
4. Secure the inserted wires by tightening the retaining screws.
5. Insert the 1/4" connector (or other appropriate connector type) into an input on the existing amplifier.



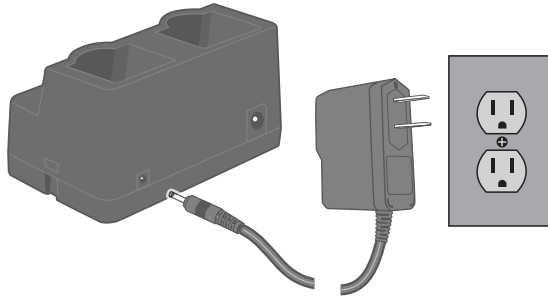
4. CHARGING THE REDMIKE

Before use, the REDMIKE should be charged. It will take 8-9 hours for the REDMIKE to obtain a full charge. A fully charged REDMIKE will last for over 7 hours of use. If microphones are used daily, they should be kept in the cradle – microphones can be left in a charging cradle constantly for up to 2 weeks without causing degradation to battery life.

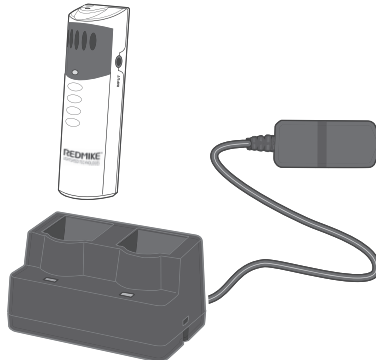
A red light on the charging cradle indicates the REDMIKE is charging. A green light indicates that charging is complete and a full charge has been reached. A blinking light indicates a charging or sensing error. See Troubleshooting section for more information.

REDMIKE incorporates alkaline protection into the microphone design. Always use a Lightspeed rechargeable sensing battery. Replacement AA NiMH batteries may only be purchased through Lightspeed Technologies (part # BA-NH2A27). Do not attempt to charge alkaline batteries. They can overheat and expand creating a significant hazard and damaging the microphone (this is not covered by warranty).

1. Plug power cord into the cradle charger and then plug the AC end into an electrical outlet.
2. Ensure that the REDMIKE is turned OFF.



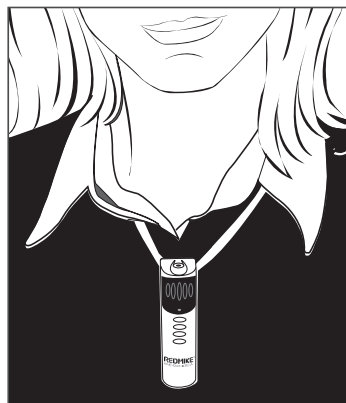
3. Place the REDMIKE into the cradle. The LED on the cradle will glow RED indicating charging has started. When the REDMIKE is fully charged the LED on the cradle will change to GREEN.



5. OPERATING THE REDMIKE

Once the REDMIKE is charged, follow these steps to set it up for use.

1. Turn the CAT 805 power on. The blue LED will glow.
2. Remove the REDMIKE from the charging cradle and turn it on.
3. Slip the REDMIKE with lanyard around the neck and position the top of the microphone just below the collarbone. NOTE: Positioning of the REDMIKE is critical for proper volume adjustment.
4. Set the volume on the existing amplifier at a normal level (25-30%) to start with.
5. While speaking in a normal voice slowly increase the volume of the corresponding channel on the CAT 805iX until your voice is barely audible. Each REDMIKE has its channel pre-set to either A or B, as indicated on the back of the Mic.



REMEMBER: This equipment supplements the user's voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.

6. Adjust the corresponding volume on the amplifier as needed to achieve an appropriate level amplified through the speakers.
7. Once initial volume level is set, walk around the room and listen for audio dropout and overall audio quality. Fine-tuning the audio is accomplished by making minor adjustments to the volume levels on the CAT 805iX and/or the amplifier.
8. If a second REDMIKE was purchased, repeat steps 2-4.

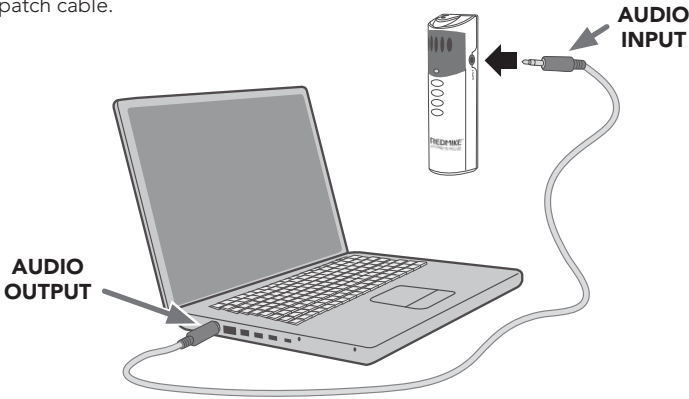
USING REDMIKE TO AMPLIFY EXTERNAL AUDIO EQUIPMENT

The REDMIKE includes a 3.5mm audio input jack to connect to an audio source like a laptop or MP3 player. The REDMIKE will transmit the audio signal to be played through the system.

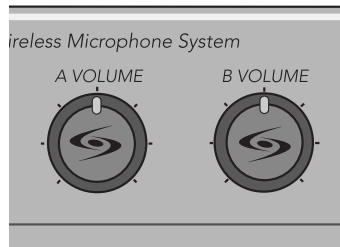
If your system includes two REDMIKEs, we recommend using Channel B (student mike) to amplify the external audio equipment so the teacher's volume on the Channel A (teacher mike) does not have to be adjusted.

To determine which REDMIKE is set to Channel B, you can look at the switch on the back of the mike or speak into one of the mics and watch which set of LED's glow on the front panel of the CAT 805iX (A Volume or B Volume correspond to Channels A or B).

1. Plug your external audio equipment (for example, laptop), into the input on the REDMIKE labeled "INPUT" using a 3.5mm patch cable.

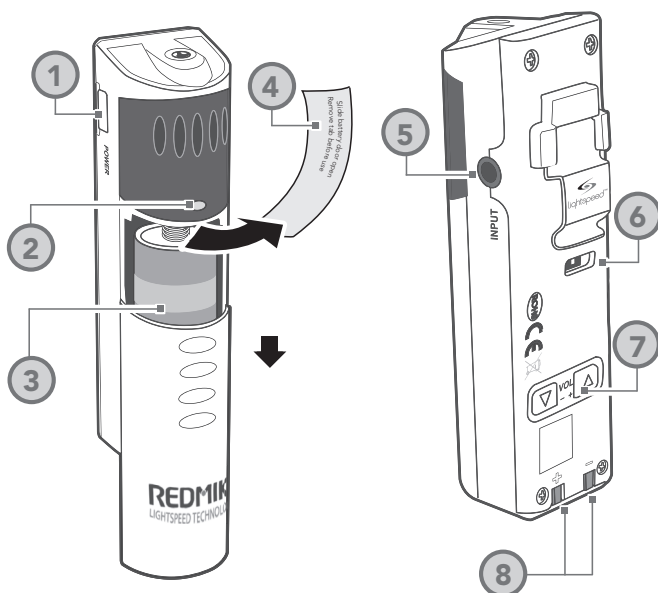


2. Adjust the volume on the CAT 805iX receiver which corresponds to selected mic channel A or B.



SECTION 3:

OPTIONAL ACCESSORIES

OPTIONAL REDMIKE VC (Volume Control)
Controls and Connections**1. POWER /MUTE BUTTON****2. POWER/LOW BATTERY INDICATOR:**

A BLUE light indicates the REDMIKE VC is on and fully charged. A RED light indicates a charge is needed.

3. BATTERY COMPARTMENT:

To open, slide the door downward. The battery should only be replaced by a Lightspeed AA rechargeable sensing battery (part # BA-NH2A27).

4. YELLOW PROTECTIVE TAB:

Slide the battery compartment door and remove this disposable protective tab before use.

5. AUDIO/MICROPHONE INPUT:

Use this input to plug in a laptop, MP3 player or other audio

source to wirelessly transmit audio to be played through the system. Alternatively, an external microphone can be connected.

6. CHANNEL SELECT SWITCH (CH A/B): Use this to choose Channel A or B. If you are using a single microphone, we recommend using Channel A.

7. VOLUME CONTROLS (UP - DOWN)**8. CHARGER CONTACTS (+ -):**

These contacts interface with the charging tabs when the REDMIKE VC is placed in the BC-RMCC cradle charger.

REDMIKE VC : Charging

Before use, the REDMIKE VC should be charged. See page 16 and follow the same instructions for the REDMIKE.

REDMIKE VC : Initial Set-up

See page 17 and follow the same instructions for the REDMIKE to setup the REDMIKE VC.

NOTE: A nominal volume level must be set on the CAT 805iX before adjusting controls on the REDMIKE VC.

The teacher can now use the controls on the REDMIKE VC to adjust the volume level from anywhere in the room. The microphone volume control has 4 steps up and 4 steps down from the mid point (9 levels total).

5. Warranty, Safety
& Specifications

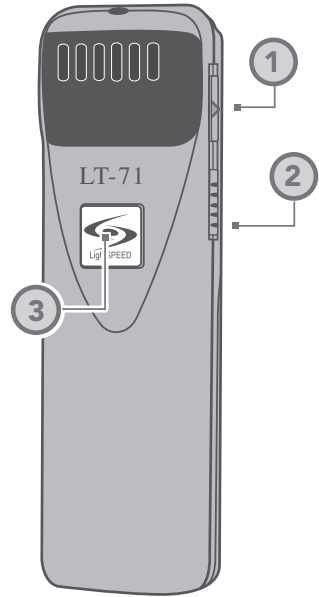
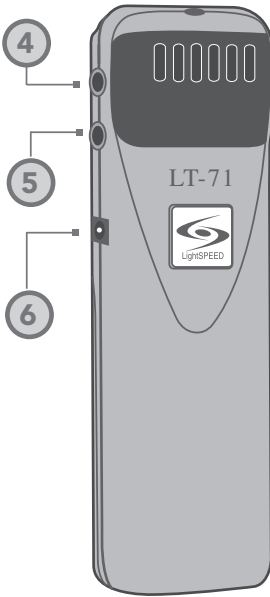
4. Troubleshooting

3. Optional
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1. Overview

OPTIONAL LT-71: Controls and Connections



1. ON/OFF/MUTE Switch

2. CHANNEL SELECT SWITCH (CH A/B):

Use this to choose Channel A or B. If you are using a single microphone, we recommend using Channel A.

3. POWER/CHARGE INDICATOR:

A BLUE light indicates the REDMIKE VC is on and fully charged. A RED light indicates a charge is needed.

4. EXTERNAL MICROPHONE

INPUT (MIC): Use the 3.5mm MIC jack for the optional TK-250 headset microphone (part# MC-TK250LTM).

5. AUXILIARY (AUX):

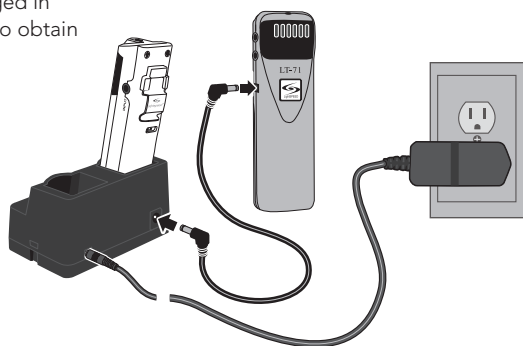
Plug a laptop, MP3 player or other audio source into this jack to wirelessly transmit the audio signal to be played through the system.

6. CHARGER INPUT (CHARGER):

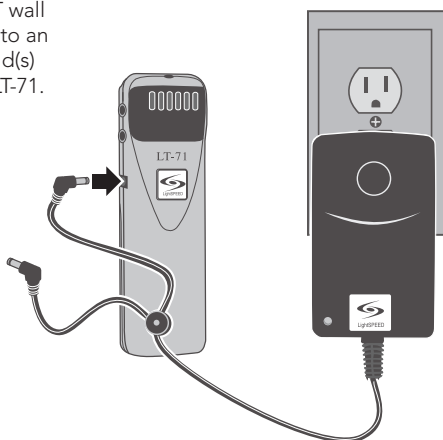
Plug the charging cable from the charger into this jack for daily charging. The LED on the front will glow RED to indicate charging.

LT-71: Charging

1. Ensure that the LT-71 is turned OFF.
2. Make sure the cradle charger is plugged into a wall outlet. Connect one end of the charging cable into the jack labeled CHARGER on the side of the LT-71 and plug the other end into the charging jack on the rear of the REDMIKE cradle charger. The LT-71's rechargeable batteries are factory installed. The LED on the front of the LT-71 will glow RED when charging.
3. Leave the LT-71 plugged in overnight (8–10 hrs.) to obtain a full charge.



NOTE: If the system was purchased without a REDMIKE or REDMIKE VC, the LT-71 will utilize the BC-TXLT wall charger. Plug the wall charger into an AC outlet and plug the other end(s) into the CHARGER jack on the LT-71.

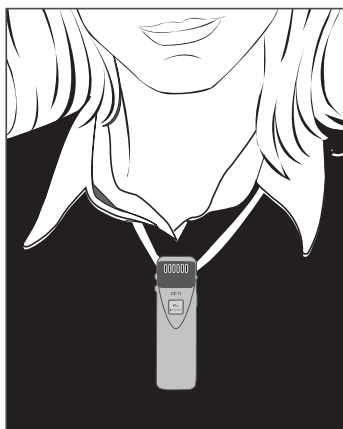


LT-71: Initial Set-up

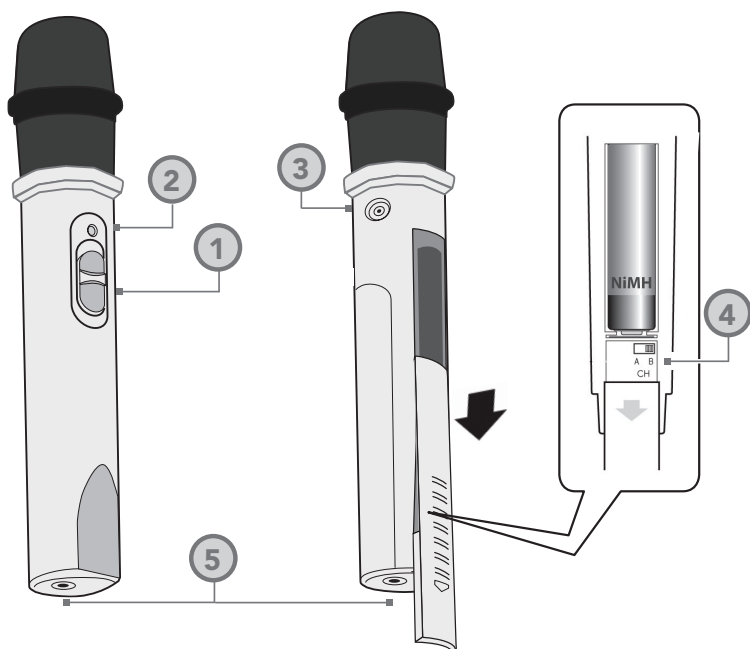
Once the LT-71 is charged, follow these steps to set it up for use.

1. Turn the CAT 805iX power switch to the ON position. The RED LED on the switch will glow.
2. Turn on the LT-71 and set the operating channel to "B".
3. Slip the LT-71 with lanyard around the neck and position the top of the microphone just below the collarbone. NOTE: Positioning of the LT-71 is critical for proper volume adjustment.
4. While speaking in a normal voice slowly increase the volume for Channel B on the CAT 805iX until your voice is barely audible.

REMEMBER: This equipment supplements the user's voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.



REDMIKE Share: Controls and Connections



1. POWER SWITCH

2. POWER/CHARGE INDICATOR:

this light glows blue when turned on and turns off to indicate low battery level. When charging, the light glows red.

3. AUDIO INPUT: plug a laptop, MP3 player or other audio device into this jack to wirelessly transmit the audio signal to be played through the system.

4. CHANNEL SELECT SWITCH

(CH A/B): Located in the battery compartment, this switch is set to Channel B at the factory.

5. CHARGER INPUT: Plug the charging cable from the REDMIKE cradle charger or into this jack.

5. Warranty, Safety
& Specifications

4. Troubleshooting

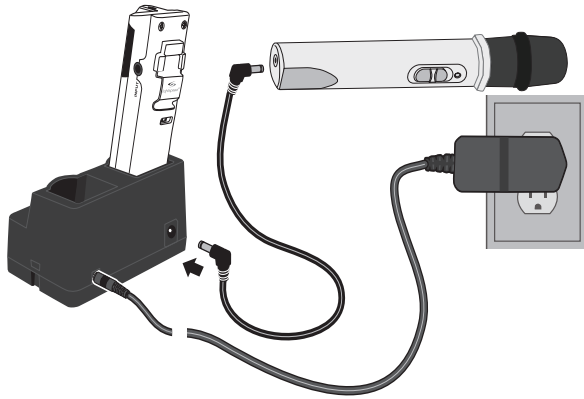
3. Optional
Accessories

2. Setup & Use

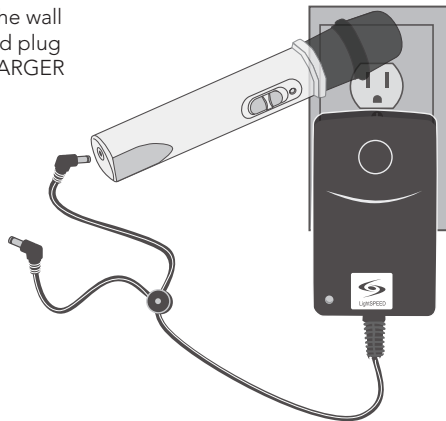
1. Overview

REDMIKE Share: Charging

1. Ensure that the REDMIKE Share is turned OFF.
2. Make sure the cradle charger is plugged into a wall outlet. Connect one end of the charging cable into the jack labeled CHARGER on the bottom of the REDMIKE Share.
3. Plug the other end into the charging jack on the rear of the cradle charger.
4. The LED on the microphone will glow RED to indicate charging.
5. Leave the REDMIKE Share plugged in overnight (8-10 hours) to obtain a full charge.



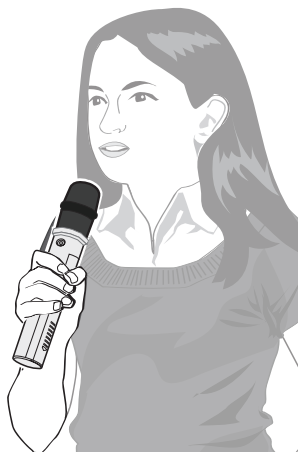
NOTE: If the system was purchased without a REDMIKE or REDMIKE VC, the REDMIKE Share will utilize the BC-TXLT wall charger. Plug the wall charger into an AC outlet and plug the other end(s) into the CHARGER jack on the REDMIKE Share.



REDMIKE Share: Initial Set-up

1. Ensure the CAT 805iX is ON. The blue LED on the power button will glow.
2. Turn on the REDMIKE Share by sliding the switch to the top position.
3. Grip the barrel in the center section.
Avoid covering the infrared emitters just below the microphone grille. This could interrupt signal transmission.
4. While speaking in a normal voice, increase the B VOLUME on the CAT 805iX level until your voice is barely audible.

REMEMBER: This equipment is designed to supplement and distribute the user's voice so they are able to speak in a conversational tone. Having the volume set too high will result in feedback and listener fatigue.



5. Warranty, Safety
& Specifications

4. Troubleshooting

3. Optional
Accessories

2. Setup & Use

1. Overview

INITIAL SET-UP: OPTIONAL IR MEDIA CONNECTOR

1. Turn off the second microphone.
The iR Media Connector uses the same channel (channel B) as the optional second microphone (REDMIKE, LT-71, or REDMIKE Share). As a result, they cannot be used simultaneously. If you have a second microphone, turn it off before transmitting audio from the iRMC.

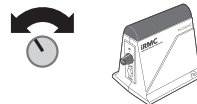
NOTE: If you adjust the CH B volume on the classroom audio system, you will also be changing the volume for your second microphone. Return the CH B volume knob to the original position before turning the second microphone back on.

2. The iR Media Connector volume is preset for most standard audio signals. If you need to turn the volume up or down, follow this procedure:

A. Adjust the volume at the computer, television, or other audio source if possible.



B. If the audio source does not have a volume control (such as many DVD players) adjust the volume at the iRMC.

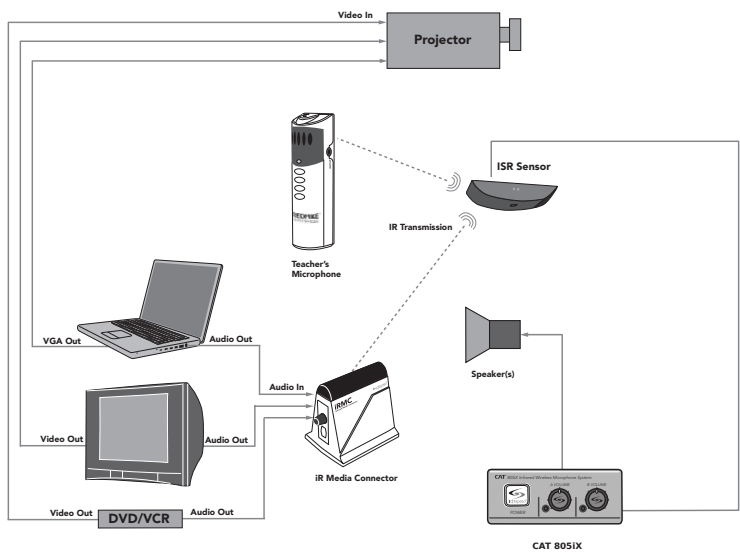


C. If the first two options do not give optimum volume level, the last place to adjust the volume is the CH. B Volume on the CAT 805iX.



OPTIONAL IR MEDIA CONNECTOR AUDIO INTEGRATION

The iRMC is designed to integrate with the CAT 805iX and multiple audio sources, allowing other instructional technologies to be clearly heard throughout the classroom.



OTHER OPTIONAL ACCESSORIES

IRMC	Infrared Media Connector
MC-TK250M	Noise-canceling headset microphone
AC-TCC7	Charging cable for REDMIKE Share and LT71

SECTION 4:

TROUBLESHOOTING

COMMON PROBLEMS AND SOLUTIONS

Note: Most problems are directly related to low battery power. Please run through the “Battery Check” items first. For remaining troubleshooting, use known good, fully-charged batteries.

ALL PROBLEMS: Most Problems are related to low battery power.

SOLUTION: Battery Check

- Confirm batteries are charged each night.
- Confirm proper batteries are used. The REDMIKE requires the Lightspeed BA-NH2A27 rechargeable sensing battery for proper charging. The REDMIKE Share uses the BA-NH2APK rechargeable battery pack. The LT-71 requires two BA-NH1 AA rechargeable batteries.
- Make sure the microphones are turned off while charging so a full charge is attained. Full charge will last eight hours.
- Inspect the battery contacts. Clean and adjust if necessary.

PROBLEM: Hearing Static

SOLUTION: Follow these steps to eliminate static.

- Ensure sensor is in optimum location (refer to sensor placement in manual). A single sensor will cover a 1600 sq. ft. enclosed classroom.
- Ensure that no other REDMIKE/LT-71/ REDMIKE Share is operating on the same channel.
- If the optional iR media connection is in use, set the microphone to Channel A.

PROBLEM: Low Volume or Feedback

SOLUTION: Follow these steps to eliminate low volume or feedback.

- Ensure microphone is positioned appropriately, just below the collar bone.
- Check volume level on the amplifier. If the volume is too high, feedback will occur. Adjust accordingly.
- Adjust the volume level on the back of the optional REDMIKE VC.
- Turn up the volume on the 805iX if volume seems too low. If feedback occurs, try turning down the volume on the CAT 805iX.

PROBLEM: No Sound From Speaker

SOLUTION: Follow these steps to produce sound from speakers.

- Turn the CAT 805iX on. Confirm that the POWER light located on the front panel switch is on.
- Confirm signal is being received at the CAT 805iX. The IR signal light will be RED indicating a signal is being received.
- Confirm that REDMIKE is turned on. There will be a BLUE LED on the microphone to indicate it is powered on.
- Confirm that the amplifier is turned on and the volume levels are partially turned up.

If you review these instructions and still have questions, write down the serial number and model number of your system and call Lightspeed Technical Services at 800.732.8999, 5 a.m. – 5 p.m., PST.

TIPS TO OBTAIN OPTIMUM AUDIO PERFORMANCE

- Speak in a natural voice. A normal conversational speech level will provide an adequate signal. It is not necessary to increase the intensity of your voice—the audio system provides adequate amplification (approximately 5 – 10 dB) above ambient room noises.
- Avoid wearing jewelry that may rub or bump against the microphone.
- Turn the REDMIKE off during private conversations with a student, parent, or other classroom visitor. You can also cover the LED lens on top of the REDMIKE to block the signal.
- Recharge batteries each night. When recharged nightly, operating time (actual usage) for the transmitters will last through a typical school day.

SECTION 5:

WARRANTY, SAFETY & SPECIFICATIONS

FIVE-YEAR LIMITED WARRANTY

Lightspeed Classroom Audio Systems are guaranteed against malfunction due to defects in materials and workmanship for a period of FIVE (5) YEARS, beginning at the date of the purchase invoice. If such malfunction occurs, the product will be repaired or replaced (at Lightspeed's option) without charge during the warranty period.

Lightspeed's Warranty Exchange Program applies to all infrared systems within the five (5) year warranty period. If an infrared product or component has an issue that requires service, a refurbished replacement will immediately be sent to the customer to minimize downtime. Customers will receive the exchange product(s) or component(s) within 2-3 days. A prepaid return label will be included with exchanged products so original malfunctioned equipment can be returned to Lightspeed. Any exchanged equipment will remain covered under the original five (5) year warranty.

1. Warranty on infrared microphones is FIVE (5) YEARS.
2. Warranty on Lightspeed NiMH rechargeable batteries is one (1) year.
3. Prepaid shipping label provided by Lightspeed for warranty repairs within the U.S. Customers outside the U.S. should refer to the Lightspeed website (www.lightspeed-tek.com) for warranty repair instructions.
4. Warranty does not extend to finish, appearance items, or malfunctions due to abuse or operation other than specified conditions, nor does it extend to incidental or consequential damages. Repair by other than Lightspeed or its authorized service agencies will void this guarantee. Information on authorized service agencies is available from Lightspeed Technologies, Inc.

Our Service Department (800.732.8999, 5 a.m. – 5 p.m., PST) will handle all your repair/replacement needs.

IMPORTANT SAFETY INSTRUCTIONS

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use the apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong is provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.
11. Only use attachments/ accessories specified by the manufacturer.
12. Use only with a cart, stand, tripod, bracket or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.
13. Unplug this apparatus during lightning storms or when unused for long periods of time.
14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.
15. When the mains plug or appliance coupler used as the disconnect device, it shall remain readily operable.
16. Please keep the unit in a good ventilation environment.

SAFETY WARNINGS AND CERTIFICATIONS



CAUTION



RISK OF ELECTRIC SHOCK DO NOT OPEN

**CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK
DO NOT REMOVE COVER (OR BACK)
NO USER-SERVICEABLE PARTS INSIDE
REFER SERVICING TO QUALIFIED PERSONNEL**

CERTIFICATIONS



This product conforms with the essential requirements of the following European Union Directives: 89/336/EEC, 92/31/EEC, 93/68/EEC, and 2004/108/EC Electromagnetic Compatibility Directives.



Lightspeed Technologies launched a formal product recycle program in Europe that complies with the European Union Directive 2002/96/EC on Waste Electrical and Electronic Equipment ("WEEE Directive"). Please visit our website at www.Lightspeed-tek.com for more information.



This product is manufactured using lead-free processes and is free of other materials harmful to the environment. It conforms to the most stringent new European guidelines for consumer products (RoHS).

SYSTEM SPECIFICATIONS

OVERALL SPECIFICATIONS

Audio Output Level	500mV
Frequency Response	100 Hz to 10 kHz ± 3 dB
Carrier Frequencies (IR)	2.06/2.54; 3.2/3.7 MHz
Signal-to-Noise Ratio	> 73 dB
Image and Spurious Rejection	> 70 dB

RECEIVER SPECIFICATIONS

Receiver Type	Superheterodyne
Receiver Sensitivity	6 μ V for 60 dB S/N
Image and Spurious Rejection	> 70 dB
Dimensions (W x D x H)	4.2" x 4" x 1.8"
Weight	0.95 lbs.

TRANSMITTER SPECIFICATIONS

REDMIKE and REDMIKE VC

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	1 AA NiMH Rechargeable Sensing Battery
Audio Input	3.5 mm
Dimensions (W x D x H)	0.9" x 1.0" x 3.5"
Weight	2.1 oz.

LT-71 LightMic

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	2 AA NiMH Rechargeable
Audio Inputs	Mic Level 3.5 mm, Line Level 3.5 mm
Dimensions (W x D x H)	1.375" x .75" x 4.625"
Weight	3.7 oz.

REDMIKE Share Handheld Microphone

Audio Distortion	< 1 %
Built-in Microphone	Unidirectional Electret
Battery Power (1-year warranty)	1 AA NiMH Rechargeable Battery Pack
Audio Input	3.5 mm
Dimensions (W x D x H)	8.25" x 1.3" x 1.3"
Weight	7.9 oz.

ISR SENSOR SPECIFICATIONS

Working Range	Up to 1600 square feet per sensor
Cable	50 ft., Plenum-rated Cat 5e
Mounting	Ceiling clip/Wall bracket
Dimensions	9.4" x 1.4" x 5.2"
Weight	14.3 oz.



LIGHTSPEED TECHNOLOGIES

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